

MASSOCARE AP:

Conditioning hair & skin, naturally

PHOSPHOLIPIDS are naturally occurring body components. Their molecular structure is very similar to triglycerides but with one fatty acid being replaced by a phosphate-containing polar group; that makes them amphiphilic. **PHOSPHOLIPIDS** are the major structural component of most biological membranes and form the lipid bilayer in cell membranes.

MASSOCARE AP are a range of **biomimetic phospholipid complexes**. Their similarities with natural phospholipids make them highly interesting **cosmetic ingredients**.

MASSOCARE AP are derived from **vegetable oils**. Those are modified in order to obtain specific **multifunctional personal care ingredients**. They are all very mild and substantive and impart deep conditioning to skin and/or hair.

MASSOCARE AP are **very stable** products. Formulation wise, they are versatile and compatible with almost all cosmetic ingredients, including anionic surfactants.

MASSOCARE AP are biomimetic phospholipids, derived from vegetable oils, with multifunctional properties

MASSOCARE AP BENEFITS

- ◇ **Sustainable**
- ◇ **Naturally derived**
- ◇ **Biomimetic**
- ◇ Higher **stability** and easier to **formulate** than natural phospholipids
- ◇ Highly **substantive** to hair and/or skin
- ◇ **Non-irritating**
- ◇ Source of **essential fatty acids**
- ◇ Unique **conditioning** properties
- ◇ Additional **functionalities** depending on each product: **repairing, anti-microbial, anti-irritant...**

MASSOCARE AP APPLICATIONS

- ◇ **Skin care:** creams, lotions, tonics, facial washes...
- ◇ **Hair Care:** conditioners, shampoos, hair tonics, hair creams...
- ◇ **Sun Care:** all purpose pre & after-sun products, including sunscreens
- ◇ **Toiletries:** bath & shower preparations...
- ◇ **Colour Cosmetics:** foundations, lipsticks...
- ◇ **Baby products**

MASSOCARE AP EFA:

Source of essential fatty acids

DESCRIPTION

Massocare AP EFA is a biomimetic phospholipid complex derived from **safflower oil**. Thanks to its origin, it is extremely rich in **linoleic acid** (up to 80%), one of the essential fatty acids present in skin and hair.

The topical application of **Massocare AP EFA** will **increase the content of linoleic acid**, facilitating and improving skin's vital functions. When included in hair care formulations, it will improve the scalp conditions.

INCI NAME

Linoleamidopropyl PG-Dimonium Chloride Phosphate

PRODUCT SUMMARY

- ◇ **Physical appearance:** clear may haze
- ◇ **Function:** soothing, nourishing and conditioning active
- ◇ **Applications:** hair & body treatments for mild and sensitive skin
- ◇ **Use level:** 2.0 - 5.0 %



FEATURES & BENEFITS

- Substantive to hair and skin
- Extremely mild
- Non-greasy emollient
- Makes clear formulations
- Compatible with anionic surfactants

APPLICATIONS

- Facial and body treatments for sensitive skin
- Facial cleansers
- Skin nourishing products
- Body, hands & hair washes

MASSOCARE AP GLA:

Skin natural barrier enhancement

DESCRIPTION

Massocare AP GLA is a biomimetic phospholipid complex derived from natural **borage oil** containing the highest available source of **γ -linolenic acid**, a building compound for tissues.

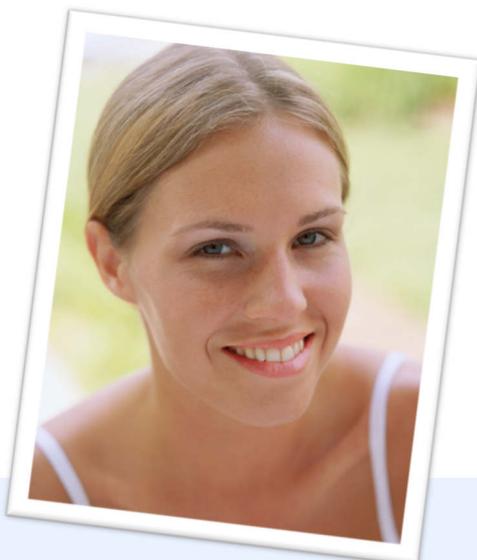
Massocare AP GLA increases the concentration of skin's essential fatty acids **enhancing** its **barrier system**, **reducing TEWL** and **alleviating adverse skin conditions**.

INCI NAME

Sodium Borageamidopropyl PG-Dimonium Chloride Phosphate

PRODUCT SUMMARY

- ◇ **Physical appearance:** clear to slightly hazy liquid
- ◇ **Function:** skin moisturiser and nourisher
- ◇ **Applications:** skin treatments
- ◇ **Use level:** 2.0 - 5.0 %



FEATURES & BENEFITS

- Highly substantive
- Non-greasy emollient
- Non-occlusive moisturizer
- Soothing agent
- Reduces TEWL
- Skin normaliser

APPLICATIONS

- Treatments for sensitive, dry and scaly skin
- Protection and barrier creams/lotions
- Anti-aging treatments

MASSOCARE AP PTC:

Multifunctional cleansing phospholipid

DESCRIPTION

Massocare AP PTC is a biomimetic phospholipid complex derived from coconut oil.

Massocare AP PTC is a multifunctional surfactant that delivers unique properties to **skin care** and **personal wash products**.

INCI NAME

Cocamidopropyl PG-Dimonium Chloride phosphate

PRODUCT SUMMARY

- ◇ **Physical appearance:** clear amber liquid
- ◇ **Function:** surfactant, conditioner and anti-microbial agent
- ◇ **Applications:** hair & skin care treatments and cleansing products
- ◇ **Use level:** 1.0 - 5.0 %



FEATURES & BENEFITS

Highly substantive to hair & skin
Mild cleanser
Cold processable
Reduces surfactants irritation
Provides antimicrobial and preservative boosting effects
Makes clear formulations
Skin conditioner

APPLICATIONS

Anti-perspirant and deodorant applications
Anti-acne treatments
Make-up removers
Anti-bacterial surfactant systems
Body and hair cleansing products
Baby products

MASSOCARE AP PTC:

Multifunctional cleansing phospholipid

ANTIMICROBIAL PROPERTIES

Massocare AP PTC allows to reduce or even to eliminate the use of preservatives in personal care products.

Test Organism	ATCC	Type Number	MIC* (active ppm)
Staphylococcus aureus	6538	Gram +	141
Staphylococcus epidermidis	14409	Gram +	141
Streptococcus faecalis	6569	Gram +	141
Bacillus subtilis	6633	Gram +	71
Bacillus cereus	11778	Gram +	71
Micrococcus luteus	4698	Gram +	141
Escherichia coli	8739	Gram -	24
Proteus mirabilis	9921	Gram -	24
Pseudomonas aeruginosa	15442	Gram -	141
Pseudomonas cepacia	25608	Gram -	71
Pseudomonas stutzeri	17591	Gram -	71
Salmonella choleraesuis	10708	Gram -	588
Enterobacter aerogenes	13048	Gram -	588
Klebsiella pneumoniae	13883	Gram -	588
Aeromonas hydrophila	9071	Gram -	24
Candida albicans	10259	Yeast	376
Aspergillus niger	6275	Yeast	294
P. expansum	1117	Yeast	36
Aspergillus oryzae	10196	Yeast	2350
Cephalosporium species	12258	Yeast	71

* MIC Minimum Inhibitory Concentration



MASSOCARE Solutions for Success

MASSOCARE AP PTM :

Multifunctional preservative booster

DESCRIPTION

Massocare AP PTM is a biomimetic phospholipid complex derived from coconut oil.

Massocare AP PTM is a multifunctional ingredient that enables to **minimize preservative requirement** of personal care products.

INCI NAME

Myristamidopropyl PG-Dimonium Chloride Phosphate

PRODUCT SUMMARY

- ◇ **Physical appearance:** clear to slightly hazy liquid
- ◇ **Function:** skin conditioner with preservative boosting effects
- ◇ **Applications:** hair & skin care treatments
- ◇ **Use level:** 0.5 - 3.0 %



FEATURES & BENEFITS

Excellent substantivity
Skin conditioner
Sensorial agent
Preservative booster

APPLICATIONS

Wet wipes
Rinse-off products
Skin care emulsions
Anti-perspirants and deodorants

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www.cqmasso.com/fcr

COMERCIAL QUÍMICA MASSÓ, SA

SPAIN

Viladomat, 321, 5a
08029 Barcelona
tel: +34 93 4952500
boncins@cqm.es

FRANCE

31 rue Gorge de Loup
Cap 9 – 4^{ème} Et
69009 Lyon
tel: +33 (0)4 78640033
gcombes@cqmasso.com

POLAND

ul. Ostrobramska 101
04-041 Warszawa
tel: + 48 22 4656 550
aadamka@cqm.pl

CZECH REPUBLIC

Baarova 1542/48
140 00 Praha 4
tel: +420 241 006 570
mjedlicka@cqm.cz

HUNGARY

Máriássy u. 7
1095 Budapest
tel: +36 1 433 4849
felekes@cqm.hu

PERU

Av. La Encalada 1388, Of. 601
Centro Empresarial Polo Hunt I
Santiago de Surco, Lima 33
tel: +51 1 4364555
cromero@cqmasso.com